

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 2, 6, 10-12, and 16-17 in accordance with the following:

1. (PREVIOUSLY PRESENTED) The communicating system according to claim 2, further comprising:

a buffer buffering data transmitted from the server to the client and accelerating data output from the server so as to increase a throughput assigned to a connection to the client by the server.

2. (CURRENTLY AMENDED) A communicating system for relaying a communication between a server and a client, comprising:

a receiving device receiving data transmitted from the server to the client;

a converting device converting a first protocol of the received data into ~~another~~ a second protocol ~~on a transmission control protocol in an application protocol level where a size of a data transfer window in a transport protocol level can be changed~~, the ~~another~~ second protocol allowing a larger amount of data to be transferred at a time;

a multiplexing device multiplexing data of multiple connections ~~of the another protocol~~ converted by said converting device so that a connection with a converted window size in the transport protocol level can be used continuously; and

a transmitting device transmitting data multiplexed by said multiplexing device to a network ~~by continuously using the another protocol~~.

3. (CANCELLED)

4. (ORIGINAL) The communicating system as set forth in claim 2, further comprising:

an idling device performing an idling operation corresponding to a resource assigned to the client,

wherein said transmitting device transmits data after the idling operation is completed.

5. (ORIGINAL) The communicating system as set forth in claim 2, further comprising:

a charging device performing a charging process for a service provider of the server, wherein said receiving device receives a request from the client through the network, wherein said charging device determines whether or not the request from the client is a request to be issued to the server,

wherein when the request from the client is the request to be issued to the server, said transmitting device transfers the request from the client to the server and said charging device charges the service provider.

6. (CURRENTLY AMENDED) A communicating system for relaying a communication between a server and a client, comprising:

a receiving device receiving data from a network, the data obtained by converting a first protocol of data transmitted from the server to the client into ~~another~~ a second protocol ~~on a transmission control protocol in an application protocol level where a size of a data transfer window in a transport protocol level can be changed~~, the ~~another~~ second protocol allowing a larger amount of data to be transferred at a time, and by multiplexing data of multiple connections ~~of the another protocol so that a connection with a converted window size in the transport protocol level can be used continuously~~, and transmitted to the network by continuously using the ~~another~~ second protocol;

a demultiplexing device demultiplexing the received data;

a converting device converting ~~the~~ a protocol of the demultiplexed data into the ~~original~~ first protocol; and

a transmitting device transmitting the data converted by said converting device to the client.

7. (CANCELLED)

8. (ORIGINAL) The communicating system as set forth in claim 6, further comprising:
a charging device performing a charging process for a user of the client,
wherein said receiving device receives a request to the server from the network,
wherein said charging device determines whether or not the request to the server is a request from the client, and

wherein when the request to the server is the request from the client, said transmitting device transmits the request to the server and said charging device charges the user.

9. (PREVIOUSLY PRESENTED) A The computer-readable recording medium according to claim 10, said program further causing the computer to perform buffering data transmitted from the server to the client and accelerating data output from the server so as to increase a throughput assigned to a connection to the client by the server.

10. (CURRENTLY AMENDED) A computer-readable recording medium on which a program for a computer controlling a communication between a server and a client is recorded, said program causing the computer to perform:

receiving data transmitted from the server to the client;

converting a first protocol of the received data into ~~another~~ a second protocol ~~on a transmission-control protocol in an application protocol level where a size of a data transfer window in a transport protocol level can be changed~~, the ~~another~~ second protocol allowing a larger amount of data to be transferred at a time;

multiplexing data of multiple connections ~~of the another protocol converted by said converting device so that a connection with a converted window size in the transport protocol level can be used continuously~~; and

transmitting data multiplexed by said multiplexing device to a network ~~by continuously using the another protocol~~.

11. (CURRENTLY AMENDED) A computer-readable recording medium on which a program for a computer controlling a communication between a server and a client is recorded, said program causing the computer to perform:

receiving data from a network, the data obtained by converting a first protocol of data transmitted from the server to the client into ~~another~~ a second protocol ~~on a transmission-control protocol in an application protocol level where a size of a data transfer window in a transport protocol level can be changed~~, the ~~another~~ second protocol allowing a larger amount of data to be transferred at a time and multiplexing data of multiple connections ~~of~~ so that a connection with a converted window size in the transport protocol level can be used continuously, and transmitted to the network by continuously using the ~~another~~ second protocol;

demultiplexing the received data;

converting the a protocol of the demultiplexed data into the ~~original~~ first protocol; and

transmitting the converted data to the client.

12. (CURRENTLY AMENDED) A communicating method, comprising:

forming a virtual tunnel having a multiplexing protocol, where a size of a data transfer window in a transport protocol sent within the multiplexing protocol can be changed and a connection with a converted window size in the transport protocol can be used continuously, for ~~on a transmission control protocol~~ hiding a network delay that takes place between a server and a client; and

continuously using the virtual tunnel as a communication bypass between the server and the client so as to increase a throughput between the server and the client.

13. (ORIGINAL) The communicating method as set forth in claim 12, further comprising:

charging a user of the client for a communication using the virtual tunnel.

14. (ORIGINAL) The communicating method as set forth in claim 12, further comprising:

charging a service provider of the server for a communication using the virtual tunnel.

15. (PREVIOUSLY PRESENTED) A The communicating system according to claim 16, further comprising buffer means for buffering data transmitted from the server to the client and accelerating data output from the server so as to increase a throughput assigned to a connection to the client by the server.

16. (CURRENTLY AMENDED) A communicating system for relaying a communication between a server and a client, comprising:

receiving means for receiving data transmitted from the server to the client;

converting means for converting a first protocol of the received data into ~~another a~~ second protocol on a transmission control protocol in an application protocol level where a size of a data transfer window in a transport protocol level can be changed, the another second protocol allowing a larger amount of data to be transferred at a time;

multiplexing means for multiplexing data of multiple connections of the ~~another second~~ protocol converted by said converting device so that a connection with a converted window size in the transport protocol level can be used continuously; and

transmitting means for transmitting data multiplexed by said multiplexing device to a network ~~by continuously using the another protocol.~~

17. (CURRENTLY AMENDED) A communicating system for relaying a communication between a server and a client, comprising:

receiving means for receiving data from a network, the data obtained by converting a first protocol of data transmitted from the server to the client into ~~another~~ a second protocol on a transmission control protocol in an application protocol level where a size of a data transfer window in a transport protocol level can be changed, the another protocol allowing a larger amount of data to be transferred at a time, and by multiplexing data of multiple connections of ~~the another protocol~~ so that a connection with a converted window size in the transport protocol level can be used continuously, and transmitted to the network by continuously using the another protocol;

demultiplexing means for demultiplexing the received data;

converting means for converting ~~the~~ a protocol of the demultiplexed data into the ~~original~~ first protocol; and

transmitting means for transmitting the data converted by said converting means to the client.

18-20. (CANCELLED)